

PRESENTATION TO:

NAVY WORKING CAPITAL FUND

FINANCIAL MANAGEMENT CONFERENCE
21 FEBRUARY 2001

VADM J. DYER
COMMANDER
NAVAL AIR SYSTEMS COMMAND



REVOLUTION IN BUSINESS AFFAIRS VISION

"DON will use the best business practices
(commercial or public) and
supporting architectures (ERP approach)
to make informed decisions
(right info to the right people at the right time)."



WHAT IS ERP?

Revolutionary change in business processes for dramatic improvements

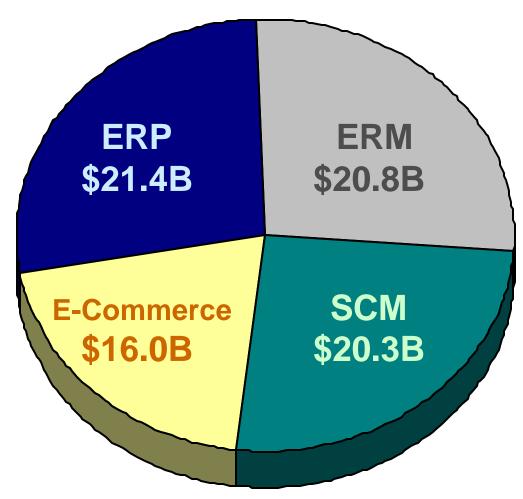


The integration of business processes that optimize functions across the enterprise (e.g., supply chain, finance, manufacturing / maintenance, HR etc.)

ERP solutions provide consistent, complete, relevant, timely & reliable information for decision making



ENTERPRISE APPLICATION MARKET EXPECTED GROWTH TO \$78.5 BILLION BY 2004



ERP - Enterprise Resource Planning

ERM - E-Business Relationship Management

SCM - Supply Chain Management

E-Commerce - Electronic Commerce

Source: AMR Research, June 2000



ERP MARKET GROWTH TREND FORECAST 1999 TO 2004



Source: AMR Research, June 2000

Gartner Research, January 2001



WHO HAS DONE ERP?

ERICSSON 🗲





















7 of 10 of Wost Profitable

9 of 10 with Highest Market Value

7 of top 10 Pharmaceutical Companies

7 of Top 10 Computer Companies

7 of Top 10 Petroleum Companies

6 of Top 10 Electronic Companies

8 of Top 10 Chemical Companies

8 of Top 10 Food Companies









Circuit City































ERP OBJECTIVES

- Federal financial standards compliance
- COTS solutions
- Best business practices
- Single data entry at source
- End-to-end process connectivity
- Data commonality
- Internal management orientation



ERP

 Revolution in Business Affairs (RBA) WG recommended ERP as a way to reduce operations and business cost using best business practices / processes for the Navy

"Give priority to investments that will cut our operating or business costs, such as Enterprise Resource Planning (ERP) and the Navy-Marine Corps Intranet (NMCI)

Secretary of the Navy Richard Danzig 10 August 1999

- RBA sponsoring 4 Navy ERP pilots structured to demonstrate and evaluate different DON functional requirements
 - NAVAIR Program Management (SIGMA)
 - NAVSUP/NAVAIR Aviation Supply Chain / Maintenance Management (SMART)
 - SPAWAR Warfare Center Management (Cabrillo)
 - NAVSEA / CLF Regional Maintenance (Nemais)
- ERP enables
 - Integrated Naval Aviation value chain reduced inventory levels and AVDLR costs
 - Automate and integration business processes
 - Share common data and process across entire organization reduces legacy systems and costs
 - Provide consistent information for improved decision-making and performance metric reduced non-value work
 - Provide total cost visibility across Department

ERP PROGRAMS



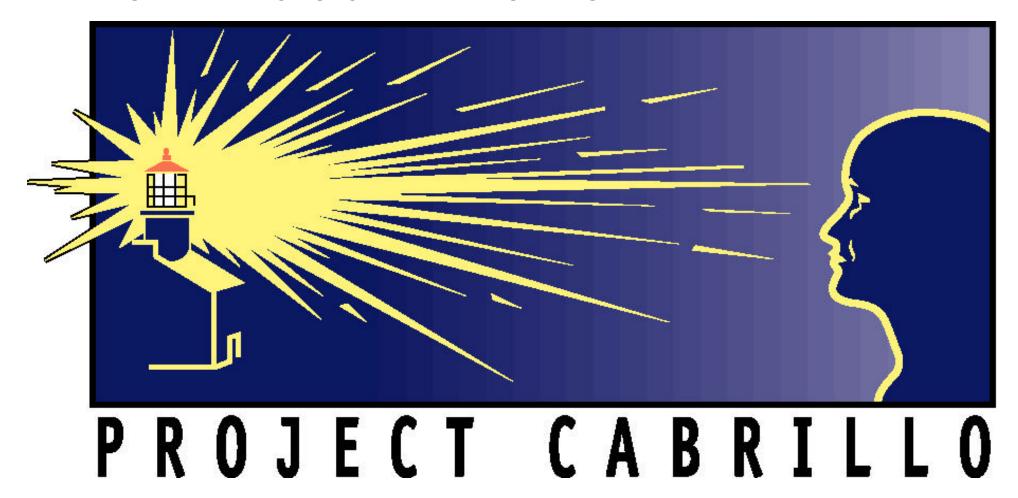
NAVY ERP PILOTS

Pilot	Sponsor	Explore ERP Business Processes to Improve:	Core S/W
Program Management (SIGMA)	NAVAIR	Program Management Process to include linkage between contracting and financial systems	SAP
Warfare Center Management (CABRILLO)	SPAWAR	NWCF Financial Management Process	SAP
Aviation Supply Chain / Maintenance Management (SMART)	NAVSUP / NAVAIR	Maintenance Planning and Material Ordering Processes (O, I, D level and NAVICP)	SAP
Regional Maintenance (NEMAIS)	NAVSEA / CLF	Workforce Management Process	SAP

- 4 Approved and Funded Pilots
- Each pilot is 12 18 months
- NAVAIR and NAVSUP / NAVAIR Pilots use E-2 data as "proof of concept"

10

SPAWAR NAWC NSWC NADEP NAVAUD DFAS



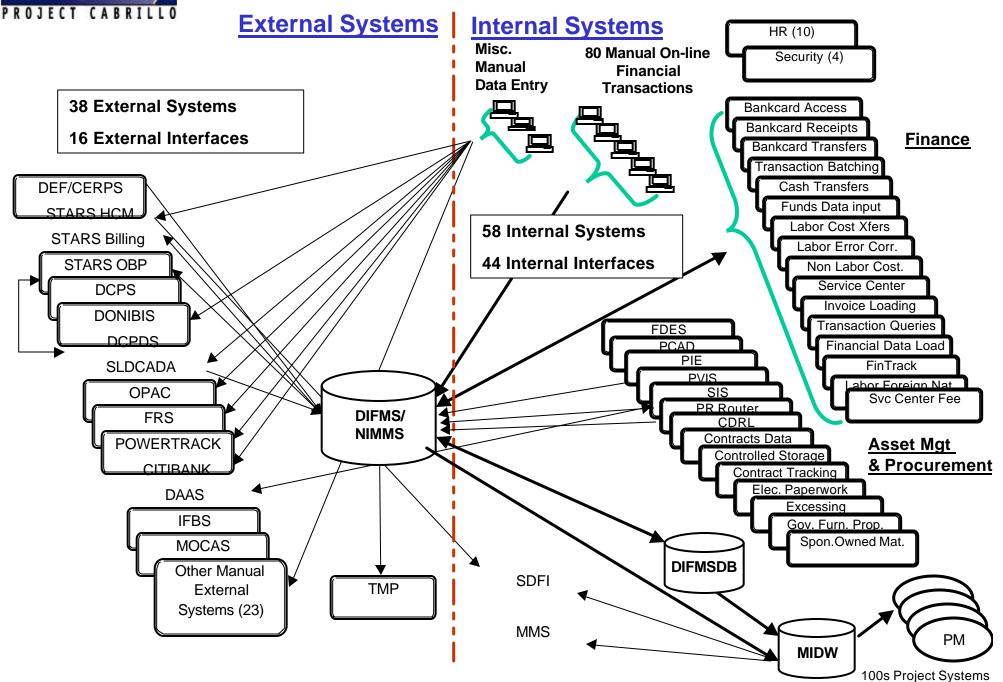


ERP TOP LEVEL OBJECTIVES

- Eliminate existing internal business systems and interfaces to the maximum extent possible (esp: financial feeders)
- Single source data entry while eliminating data redundancy and improving data integration
- CFO Compliance (auditable information to the transaction level; JFMIP / USSGL)
- Provide Navy Management an order of magnitude improvement in business information with an associated significant reduction of infrastructure costs

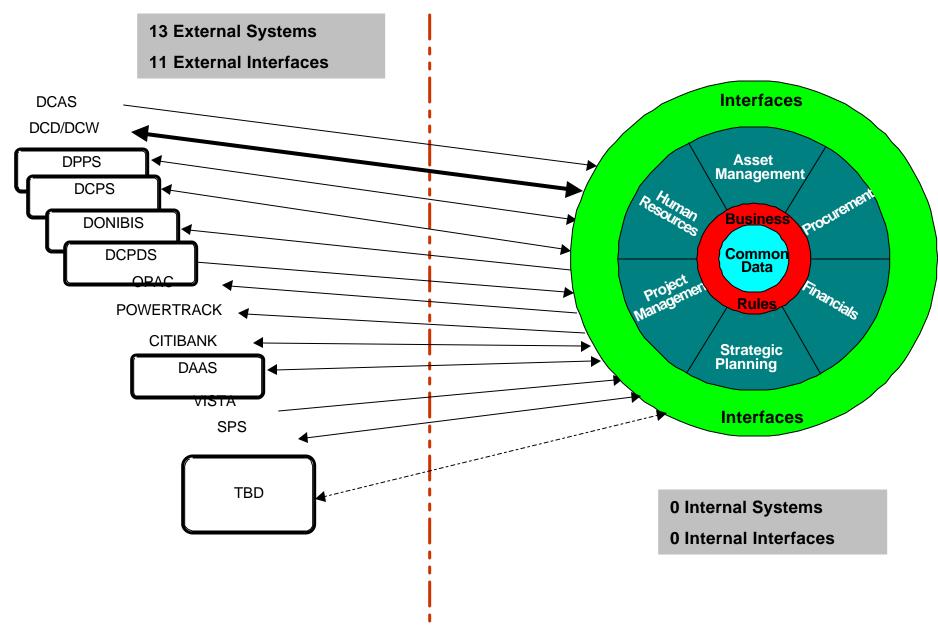


"AS IS" LANDSCAPE





END STATE VIEW





PROJECT DESCRIPTION

Core Business Functional Areas

- Financial Management
 - All financial activities including budgets, funds management, billings, payables, reporting and employee data
- Procurement Management
 - All buying activities for MRO items, from issuing PO, receipt of goods and processing vendor invoices
- Asset Management
 - Includes both real property and improvements. Tracks all assets from acquisition to disposal.
- Project / Program Management
 - Fully integrated project management system that ties together project management tools with finance, budgeting, procurement and asset management data
- Strategic Management
 - Planning and budgeting tool for both annual and long range planning.
 Will build upon annual budgeting / planning needs to develop a long range orientation for SSC-SD.

Naval Supply Systems Command Naval Air Systems Command



Supply Maintenance Aviation Reengineering Team



SMART OVERVIEW

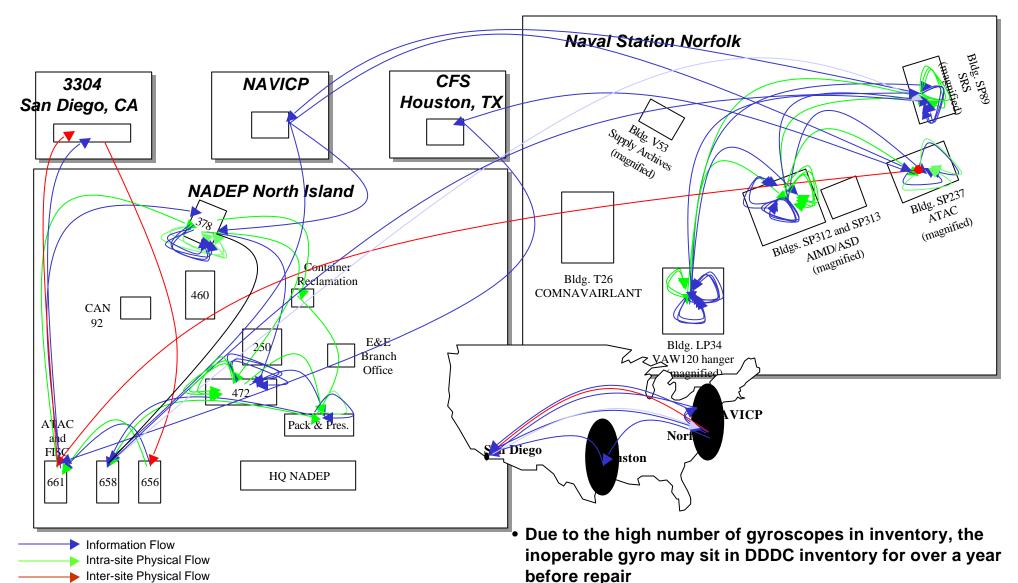
- Jointly sponsored by NAVSUP and NAVAIR
 - Phase I Study. . . Phase II Pilot. . . Phase III Enterprise Roll-out
- E-2C Hawkeye I-Level maintenance with NALCOMIS OOMA and Depot interfaces
 - E-2C Airframe, components (not including T-56 engine)
 - Activities. . . VAW-120, AIMD/ASD Norfolk, FISC Norfolk / San Diego, NADEP North Island
- LM-2500 Gas Turbine Engine (interfaces to D-Level maintenance)
 - Modules and components
 - Activities. . . NADEP North Island





PROCESS REENGINEERING: TRACING A GYROSCOPE REPLACED BY VAW-120

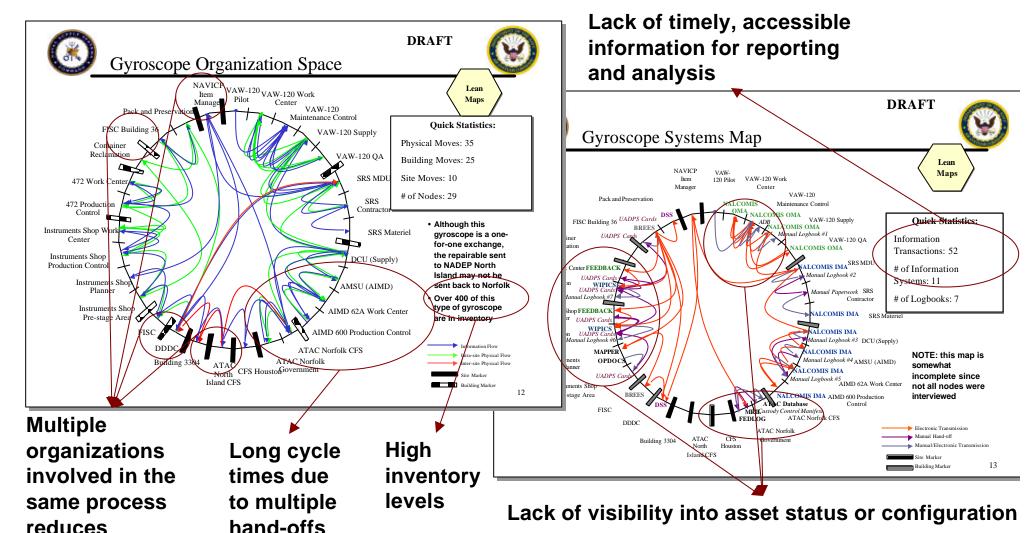
• This type of gyroscope is kept in local supply at Norfolk





accountability

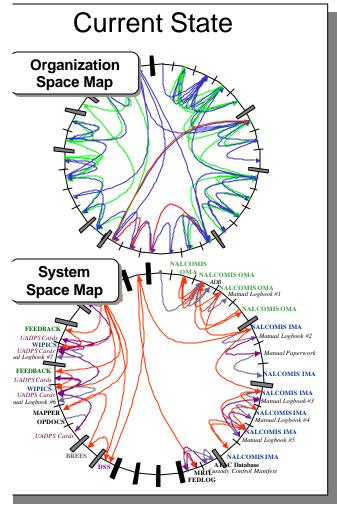
WHERE WE'VE BEEN . . . LEAN MAPPING

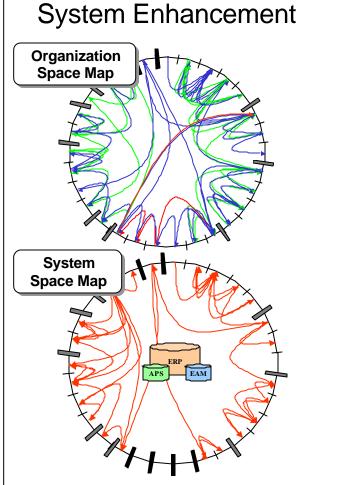


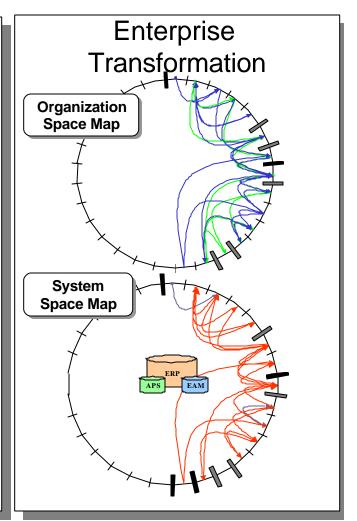
Stakeholders must deal with process complexity and competing organizational objectives



WHERE WE GO... LEAN MAPPING







- 35 physical moves
- 29 organizations
- 52 information transactions
- 11 systems/7 logbooks

- 35 physical moves
- 29 organizations
- 42 information transactions
- 1 system

- 15 physical moves
- 15 organizations
- 23 information transactions
- 1 system

NAVAL AVIATION SYSTEMS

Sigma Project

Bringing the NAVAIR TEAM together through ΣRP



PROGRAM MANAGEMENT PILOT SUMMARY

- Program Management Functional requirements:
 - Planning and Scheduling
 - Financial Management
 - Human Resource Management
 - Configuration Management / Asset Tracking
 - Limited Procurement
- NAVAIR business processes will be reengineered within the bounds of SAP's best commercial practices
- Best practices, not current practices, will be implemented
- The SAP software will be implemented with <u>no code</u> <u>modifications</u>

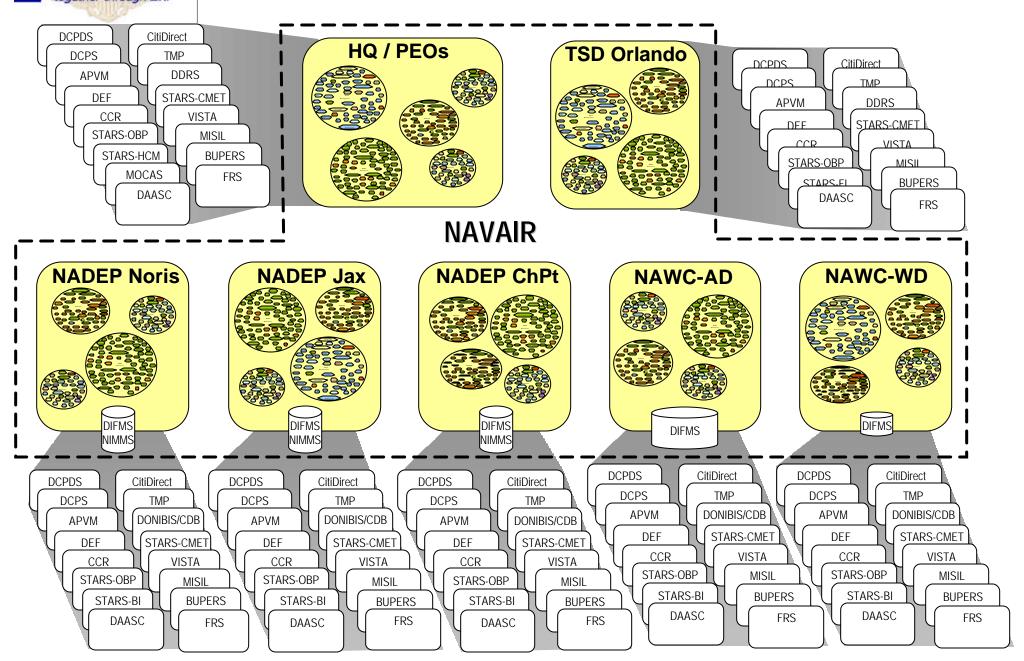


WHAT WILL THE PILOT PROVE?

- Ability for program managers to budget, plan, track execution, and measure performance across the TEAM
- Ability to track configuration and assets across the Navy
- Better cost visibility and more agile execution
- Ability to track financial execution across the general fund and NWCF
- Document tracking for milestone decision preparation (i.e. APB,ORD, MNS, TEMP etc.)
- Fixed assets management (depreciation for NWCF)
- Ability for management to roll up financial performance and asset visibility
- Ability to order MILSTRIP
- Ability for planning work, capacity loading, and schedules with the Competencies (workforce planning out of HR module; TBD)
- Supports Employee self-service (Locator, RED info, Etc.)
- Reduces turn around time for time sheet adjustments
- Verifies that the three company code structure supports the team financial requirements

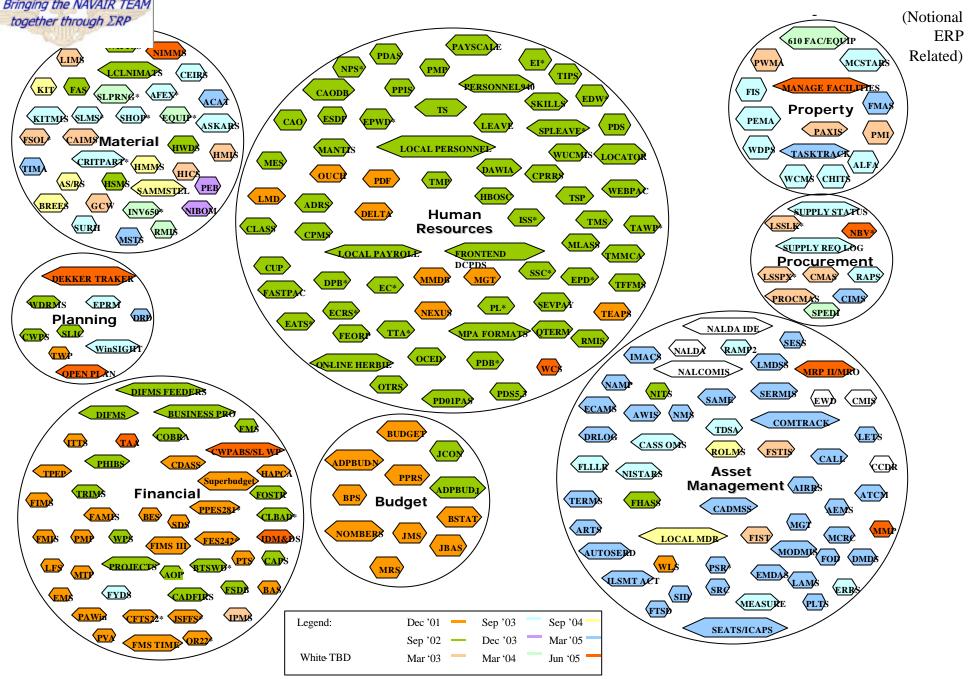


Sigma Project NAVAIR "AS IS" BUSINESS SYSTEMS



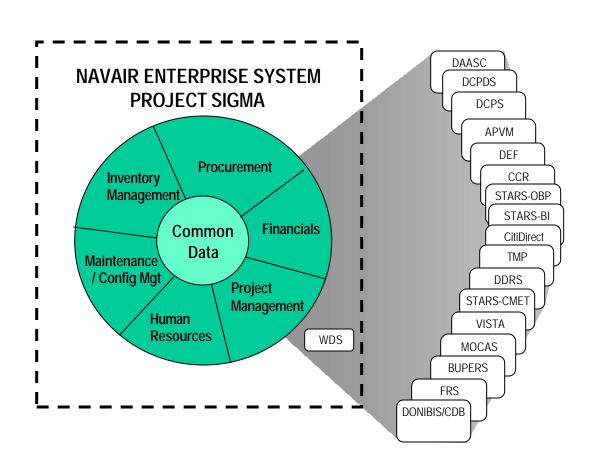
Sigma Project Bringing the NAVAIR TEAM together through ΣRP

NAVAIR LEGACY SYSTEM RETIREMENT MAP





NAVAIR "TO BE" BUSINESS SYSTEMS





PILOT IMPLEMENTATION METHODOLOGY

Jul '00

Feb '00

Apr '00

We are here

Nov '00



Project Preparation

- ✓ Kick-Off Meeting
- ✓ Define Objective &Success Criteria
- ✓ Finalize Project Infrastructure
- ✓ Plan Technical Strategies
- ✓ Develop Technical Strategies
- ✓ Mobilize Project Team
- ✓ Conduct Project Team
- ✓ Milestone Review

Business Blueprint

- ✓ Establish Technical Environment
- ✓ Conduct Project Team Training
- ✓ Prepare Development Environment
- ✓ Define Business Processes
- ✓ Prepare for Design
- ✓ Define High Level Business Requirements
- ✓ Finalize Project Scope
- ✓ Finalize Detailed Project Plans
- ✓ Milestone Review

Realization

- ✓ Perform Configuration Training
- ✓ Customize Baseline Configuration
- ✓ Design and Customize Final Configuration
- Design and Construct Conversions, Interfaces, Enhancements, Reports, Security
- ✓ Milestone Review

Pilot Integration
Testing and
Demonstration

Apr '01

- ✓ Prepare for Integration Testing
- Conduct Integration Testing
- Conduct Volume and Stress Testing
- Perform End User Training
- **■** Milestone Review

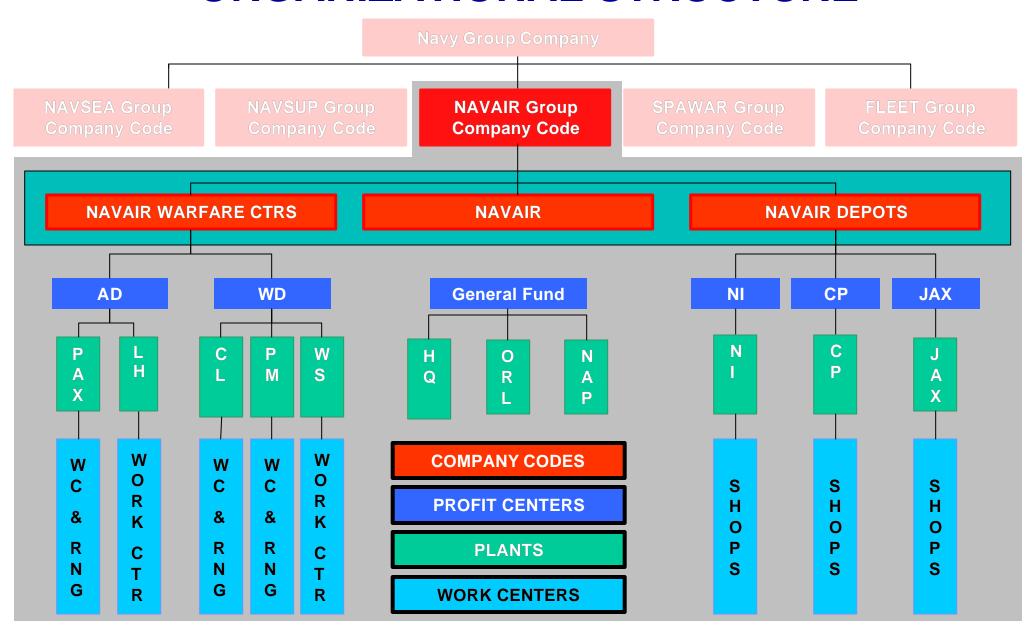
■ Future Task

Complete

In Progress



BUSINESS & FINANCIAL ORGANIZATIONAL STRUCTURE









Regional Maintenance ERP (NEMAIS)

A Joint Fleet - NAVSEA Initiative



NAVY ENTERPRISE MAINTENANCE

Improve Combat Readiness

Improve Sailor Working Conditions

Reduce Life Cycle Cost

By . . .

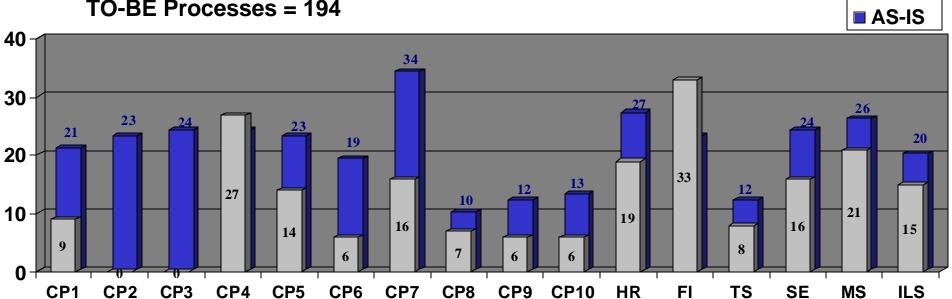
- Providing timely and rapid access to information
- Supporting total asset visibility
- Enhancing the planning and scheduling process
- Providing better decision making tools
- Reducing the total cost of ownership
- Minimizing and simplifying data collection



NAVY MAINTENANCE PROCESS (BUS 01) "AS-IS" TO "TO-BE" COMPARISON

■ TO-BE

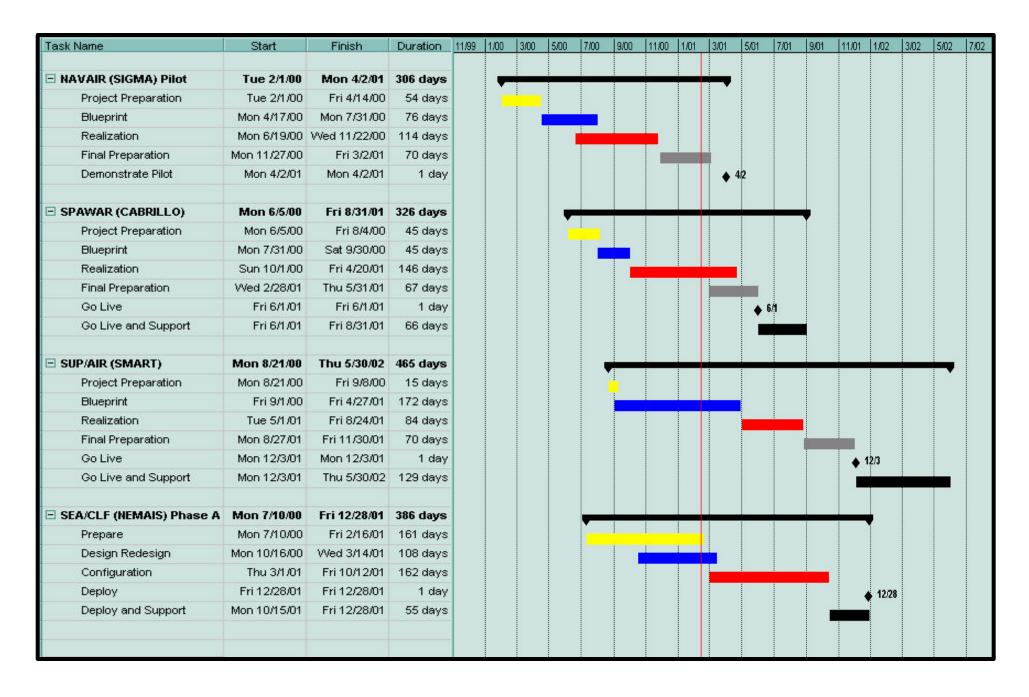




CP1	Document Work	CP9	Work Validations Cert. Records Mgmt
CP2	Validate Work	CP10	Data Feedback
CP3	Screen Work	HR	Manage Human Resources
CP4	Plan Work / Estimate Work	FI	Manage Finances
CP5	Integrate and Schedule Work	TS	Manage Engineering Support
CP6	Release Work	SE	Manage Support Equipment
CP7	Execute Work	MS	Manage Material Support
CP8	Integrated Work Testing	ILS	Manage Integrated Logistic Support

SCHEDULES

CONSOLIDATED PILOT TIMELINE



ICB Members

Ms. Iona Evans ERP Corporate Executive Naval Sea Systems Command

Mr. Mike Petz Program Manager - NETS Naval Sea Systems Command

Mr. Dennis Distler Enterprise Solutions Program Office (ESPO) Executive Director Naval Air Systems Command

Mr. Kevin Fitzpatrick Co-Program Manager - SMART Naval Supply Systems Command

Mr. John Wenke Co-Program Manager - SMART Naval Air Systems Command

Mr. Rick Pierson Program Manager - CABRILLO SPAWAR Systems Center - San Diego

ICB Staff

Mr. Greg Huntington ESPO - SIGMA Naval Air Systems Command

Mr. Stan Beiter SMART Naval Supply Systems Command

Mr. Dave Noble ERP Corporate Office Naval Sea Systems Command

Ms. Gale Pennoyer CABRILLO SPAWAR Systems Center - San Diego

Integration and Coordination Board (ICB)



Sigma Project

together through SRP

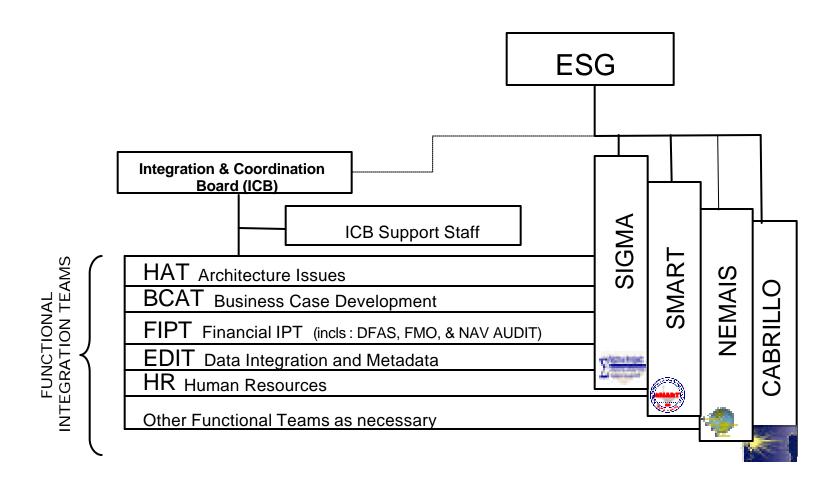
Bringing the NAVAIR TEAM



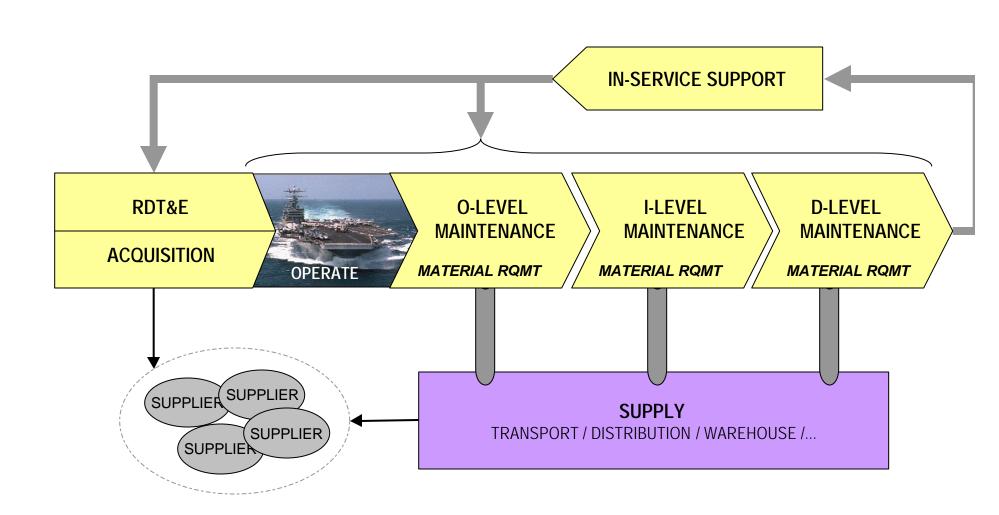




ICB INTEGRATION TEAM STRUCTURE



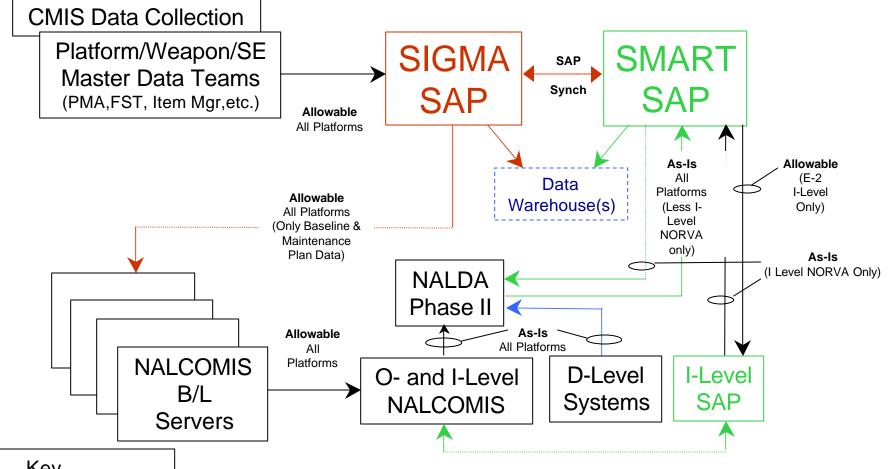
NAVAL AVIATION VALUE CHAIN





EXAMPLE: INTEGRATED AVIATION CONFIGURATION MANAGEMENT

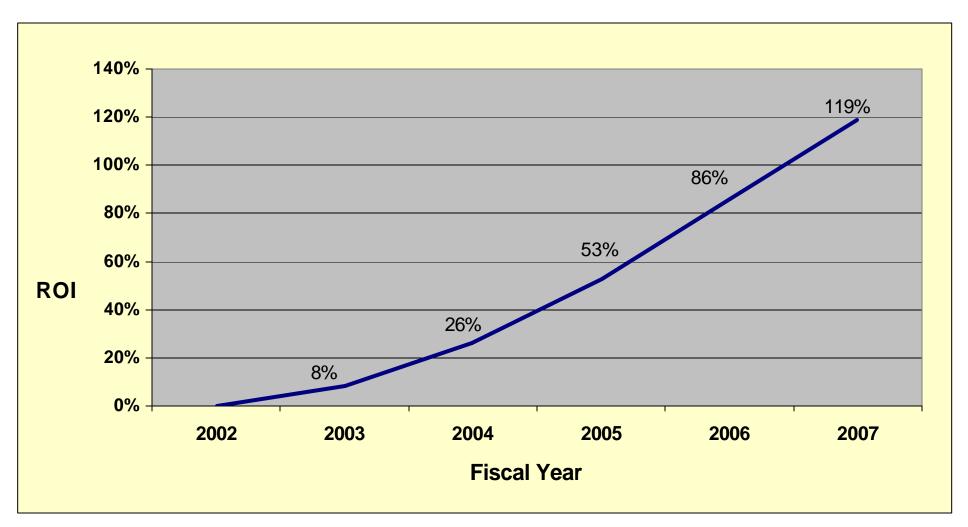




Link Developed
SIGMA to Develop
SMART to Develop
AIR-3.6 to Develop

COST - BENEFIT ANALYSIS

EXAMPLE: NAVAIR ERP FY02 - FY07 RETURN ON INVESTMENT



Initial baseline return on investment and payback savings

ERP ANTICIPATED ENTERPRISE-WIDE BENEFITS

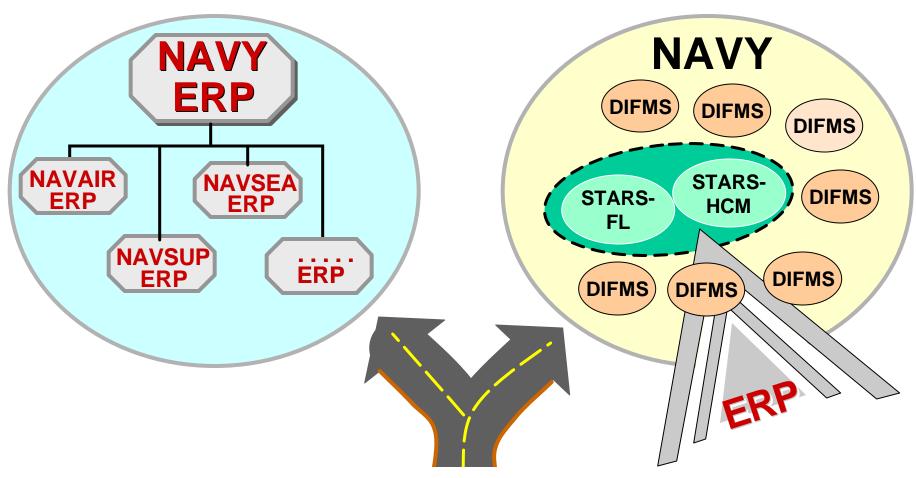
- Lower information technology expense
- Improve financial management
- Improve inventory management

- Increase labor efficiency
- Improve data integrity
- Increase readiness
- Enable regional maintenance

INDUSTRY LESSONS LEARNED - - ONES WE ARE WATCHING CLOSELY

- Inadequate sponsorship
- Poor / slow decision making
- Poor / no scope definition
- Lack of cooperation between business areas / departments
- Poor use of consultants
- Inappropriate resources
- Unrealistic expectations
- Inadequate knowledge transfer to employees
- Poor project management

THE CHALLENGE AHEAD



NAVY DIRECTION?

Which road do we take?

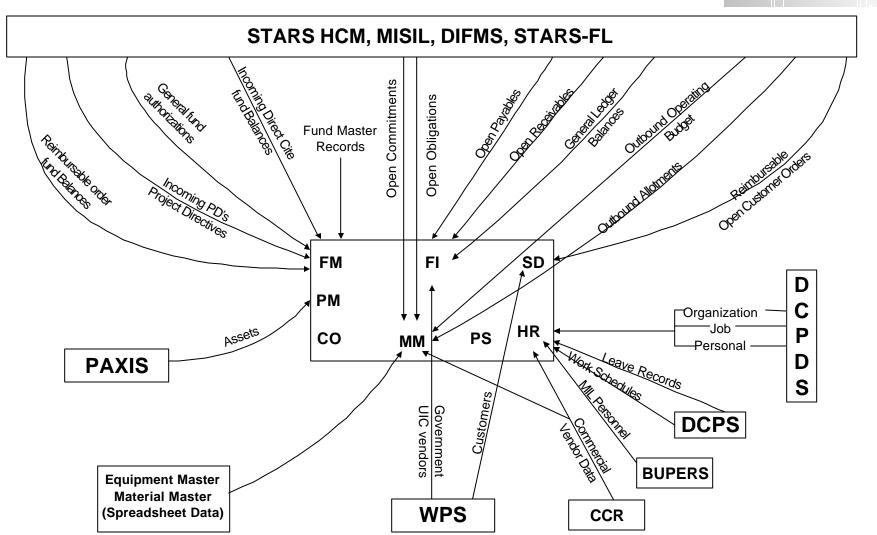


BACK UPS



CONVERSIONS VERSION 1.0

Total Conversion Scope 12





INTERFACES VERSION 1.0

